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ELENA M. CUTHBERTSON

PATENT APPLICATION IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN THE APPLICATION OF

MOTOHIRO YAMAHARA, ET AL.

SERIAL NO.: 10/521,843

FILED: JANUARY 18, 2005

DOCKET NO.: SHARP-2

EXAMINER: UNKNOWN

ART UNIT: UNKNOWN

TITLE: DENDRITIC POLYMER AND ELECTRONIC DEVICE ELEMENT

EMPLOYING THE POLYMER

WILMINGTON, DE DATE: October 7, 2005

INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendments Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In compliance with the applicants' duty of disclosure under 37 CFR 1.56, and the requirements of 37 CFR 1.97 and 1.98, and to aid in the search and examination of the above identified application, the applicants note and enclose a copy of each of the following references:

Yamamoto, et al. Japanese Patent Application Laid-Open No. 07-126616 Hitachi, Ltd., et al. Japanese Patent Application Laid-Open No. 08-018125 Cambridge, et al. Japanese Patent Application Laid-Open No. 10-092576 Mitsubishi Japanese Patent Application Laid-Open No. 63-076378 Mitsubishi Japanese Patent Application Laid-Open No. 2000-336171 Res Dev Corp. Japanese Patent Application Laid-Open No. 04-133351 Mitsubishi Japanese Patent Application Laid-Open No. 05-110069 Matsushita Japanese Patent Application Laid-Open No. 07-206599 Tosoh Japanese Patent Application Laid-Open No. 10-310561

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Applicant: Motohiro Yamahara, et al.

Serial No.: 10/521,843 Filing Date: January 18, 2005

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Stanley Elec.

Japanese Patent Application Laid-open No. 09-059355

Samuel, et al.

WO 99/21935

Synthesis, Light Emission, and Optical Limiting of Hyperbranced Poly[Phenylene-alt-(2,5-Thienylene)s], Luo, J. et al., Polymer Preprints, vol.42, no,2, 2001, pgs. 527-528, XP009020396.

Poly(Amidoamine)(Pamam) Dendrimers: From Biomimicry to Drug Delivery and Biomedical Applications, Esfand, R., et al., Drug Discovery Today, Elsevier Science Ltd, GB, vol.6 no. 8, April 2001 (2001-04), pgs. 427-436, XP001029831 ISSN: 1359-6446.

Pentacene-Based Organic Thin-film Transistors, Yen-Yi Lin et al., IEEE Transactions on Electron Devices, vol. 44, No. 8 p. 1325-1331 (1997)

Electrically Conducting Dendrimers, L.L. Miller, et al.; J. Am. Chemistry Society, vol. 119, p. 1005-1010 (1997)

Masaaki Kakimoto, Chemistry, vol. 50, p. 608-612 (1995)

Dendritic Macromolecules, Masaaki Kakimoto, Kobunshi (High Polymers, Japan) vol. 47, p. 804-807 (1998)

Conducting Polymer and Its Electronically and Optically Functional Devices, Katsumi Yoshino, Mitsuyoshi Onoda, Polymer Electronics, Japan, Corona, p. 32. (1996)

Dodensei Kobunshi No Kiso To Oyo, Base and applications Conductive Polymers, IPC, p. 24

Starburst Molecules for Amorphous Molecular Materials, Shirota, Kobata, and Noma, Chemistry Letters, p. 1145-1148 (1989)

Palladium-Catalyzed Cross-Coupling Reactions of Aryl and Vinylic Boron Compounds with Organic Halides, Miyaura and Suzuki, Yuki Gosei Kagaku Kyokai Shi, Journal of Synthetic Organic Chemistry, Japan, vol. 46, p. 848 - 860 (1988)

Palladium-Catalyzed Cross-Coupling Reactions of Organoboron Compounds, Miyaura and Suzuki, Chemistry Rev., vol. 95, pgs. 2457-2483 (1995)

Recent Advances in the Cross-Coupling Reactions of Organoboron Derivatives with Organic Electrophiles, Suzuki, Journal of Organometallic Chemistry, vol. 576, pgs. 147-168 (1999) Applicant: Motohiro Yamahara, et al.

Serial No.: 10/521,843 Filing Date: January 18, 2005

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English abstracts or concise English language explanations of each of the above patent publications are also enclosed along with a copy of PTO form 1449.

Respectfully submitted,

Donald W. Huntley Attorney for Applicants Registration No. 24,673

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Enclosures

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PTO/SB/08A (08-03)

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Substitute for form 1449/PTO

Sheet 1

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known				
Application Number	10/521,843			
Filing Date	January 18, 2005			
First Named Inventor	Motohiro Yamahara			
Art Unit				
Examiner Name				
Attorney Docket Number	Sharp-2			

U. S. PATENT DOCUMENTS							
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant		
	ļ	Number-Kind Code ^{2 (il known)}			Figures Appear		
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	FOREIGN PATENT DOCUMENTS							
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages			
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)	MM-DD-YYYY		Or Relevant Figures Appear	Τ ⁶		
		JP-07-126616	05-16-1995	Yamamoto Ryuich				
		JP-08-018125	01-19-1996	Hitachi, Ltd				
		JP-10-092576	04-10-1998	Cambridge Displ				
		JP-63-076378	04-06-1988	Mitsubishi Elec				
		JP-2000-336171	12-05-2000	Mitsubishi Chem				
·=		JP-04-133351	05-07-1992	Res Dev Corp of				

Examiner	Date	
Signature	Considered	

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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Substitute for form 1449/PTO	Complete if Known		
-	Application Number	10/521,843	
INFORMATION DISCLOSURE	Filing Date	January 18, 2005	
	First Named Inventor	Motohiro Yamahara	
STATEMENT BY APPLICANT	Art Unit		
(Use as many sheets as necessary)	Examiner Name		
Sheet 2 of 2	Attorney Docket Number	Sharp-2	

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Examiner Initials*	Cite No.1	Document Number Number-Kind Code ^{2 (# known)}	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
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Examiner Cite Foreign Patent		Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	
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		JP-05-110069	04-30-1993	Mitsubishi Elec		
		JP-07-206599	08-08-1995	Matsushita Elec		
		JP-10-310561	11-24-1998	Tosoh Group		Г
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Substitute for form 1449/PTO		o required to respond to a concentr	Complete if Known		
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INF	ORMATION	DIS	CLOSURE	Filing Date	January 18, 2005
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Sheet	1	of	2	Attorney Docket Number	Sharp-2

Examiner	Cito	NON PATENT LITERATURE DOCUMENTS	ī
Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
		LUO, PENG, CHENG, ZHONG TANG, Synthesis, Light Emission, and Optical Limiting of Hyperbranced Poly[Phenylene-alt-(2,5-Thienylene)s], Polymer Preprints, 2001, p. 527-528.	
		ESFAND, TOMALIA, Poly(Amidoamine)(Pamam) Dendrimers: From Biomimicry to Drug Delivery and Biomedical Applications, Drug Discovery Today, April 8, 2001,p.427-436, Vol. 6, No. 8	
		LIN, GUNDLACH, NELSON, JACKSON, Pentacene-Based Organic Thin-film Transistors, IEEE Transctions on Electron Devices, August 8, 1997, p1325-1331, Vol 44, No. 8.	
		MILLER, DUAN, TULLY, TOMALIA, Electrically Conducting Dendrimers, Journal American Chemistry Society,1997, p. 1005-1010, Vol.119, No. 5.	
		KAKIMOTO, Chemistry, 1995, p. 608-612, Vol. 50.	
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		SHIROTA,KOBATA,NOMA, Starburst Molecules for Amorphous Molecular Materials, Chemistry Letters, 1989, p. 1145-1148.	
		MIYAURA, SUZUKI, Yuki Gosei Kagaku Kyokai Shi, Palladium-Catalyzed Cross-Coupling Reactions of Aryl and Vinylic Boron Compounds with Organic Halides, Journal of Synthetic Organ	

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Sheet	2	of	2	Attorney Docket Number	Sharp-2

		NON PATENT LITERATURE DOCUMENTS				
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		MIYAURA, SUZUKI, Palladium-Catalyzed Cross-Coupling Reactions of Organoboron Compounds, Chemistry Rev., 1995, p. 2457-2483, Vol 95, No. 7				
		SUZUKI, Recent Advances in the Cross-Coupling Reactions of Organoboron Derivatives with Organic Electrophiles1995-1998, Journal of Organometallic Chemistry, 1999, pgs.147-168				
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